



GEOTEX 46T is a geotextile tube fabricated from a woven polypropylene geotextile containing heavy monofilament (warp) and fibrillated (fill) yarns. The individual yarns are woven in a unique twill pattern to form a strong geotextile. These characteristics make the **GEOTEX 46T** ideal for dredged material disposal, dewatering of contaminated materials and coastal/riverine erosion control. The geotextile tube is resistant to the pressures of controlled and proper hydraulic filling, ultraviolet degradation, and other stresses normally associated with these types of applications. The **GEOTEX 46T** can also be used as a scour apron to prevent undercutting due to wave or current induced scour, and to reduce local erosion during the tube filling process. **GEOTEX 46T** conforms to the properties listed below¹ which have been derived from quality control testing performed by one of SI Corporations' GAI-LAP accredited laboratories:

MARV⁴

PROPERTY	TEST METHOD	ENGLISH	METRIC
Tube			
Circumference (nominal)	Measured	15.0/30.0/45.0 ft.	4.57/9.15/13.72 m
Standard Length ²	Measured	100/150/300 ft	30.48/45.72/91.44 m
Fill Port Size (diameter)	Measured	12.0/18.0 in	30.48/45.72 cm
Fill Port Spacing (typical)	Measured	25.0/50.0 ft	7.62/15.24 m
Factory Seam Strength ³	ASTM D4884	400 lbs/in	70 kN/m
Scour Apron(other use)			
Width (nominal)	Measured	13.0/27.5/42.0	3.96/8.38/12.80 m
Anchor Tube Circumference (nom)	Measured	3.0 ft	0.91 m
Physical			
Mass/Unit Area	ASTM D5261	15.5 oz/y ²	525g/m
Mechanical⁴			
Wide Width Tensile Strength	ASTM D4595	4,800 x 7,200 lb/ft	70 x 105.1 kN/m
Wide Width Elongation	ASTM D4595	14 x 9%	14 x 9%
Puncture Strength	ASTM D4833	260 lb	1155 N
Endurance			
UV Resistance @ 500 hrs	ASTM D4355	80%	80%
Hydraulic			
Apparent Opening Size (AOS)	ASTM D4751	40 US Std. Sieve	0.425 mm
Water Flow Rate	ASTM D4491	20 gpm/ft ²	810 l/min/m ²

NOTES:

1. The property values listed above are effective 9/6/2000 and are subject to change without notice.
2. Standard lengths are typically inventoried at the factory. Non standard lengths require additional lead times.
3. Represents a cross machine factory sewn seam approved by SI Corporation. Individual project parameters may require specific seam strengths, types, etc. Please consult an SI representative if project-specific seam strengths are required.
4. Values for machine (warp) and cross-machine (fill), respectively, under dry or saturated conditions. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.